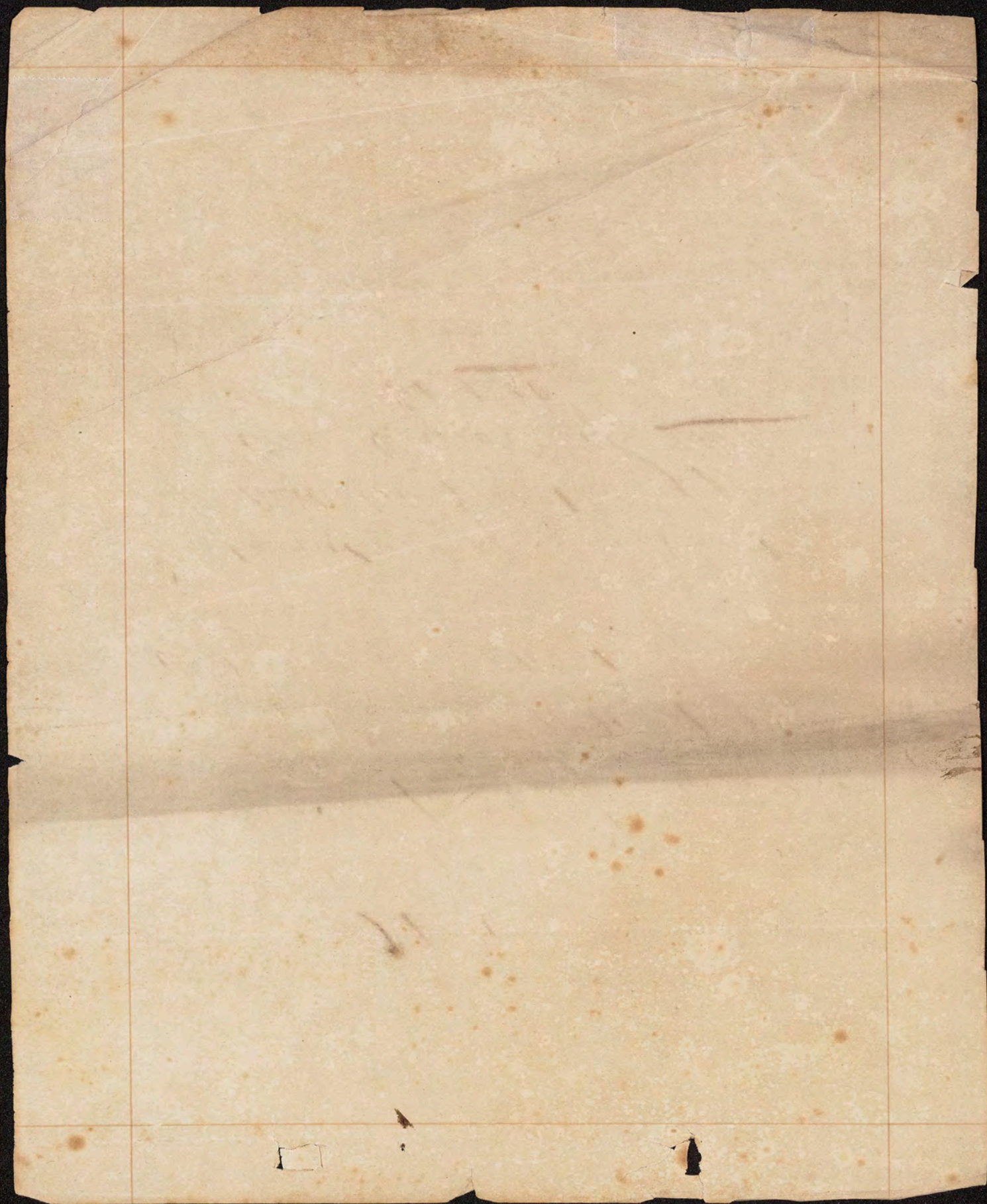


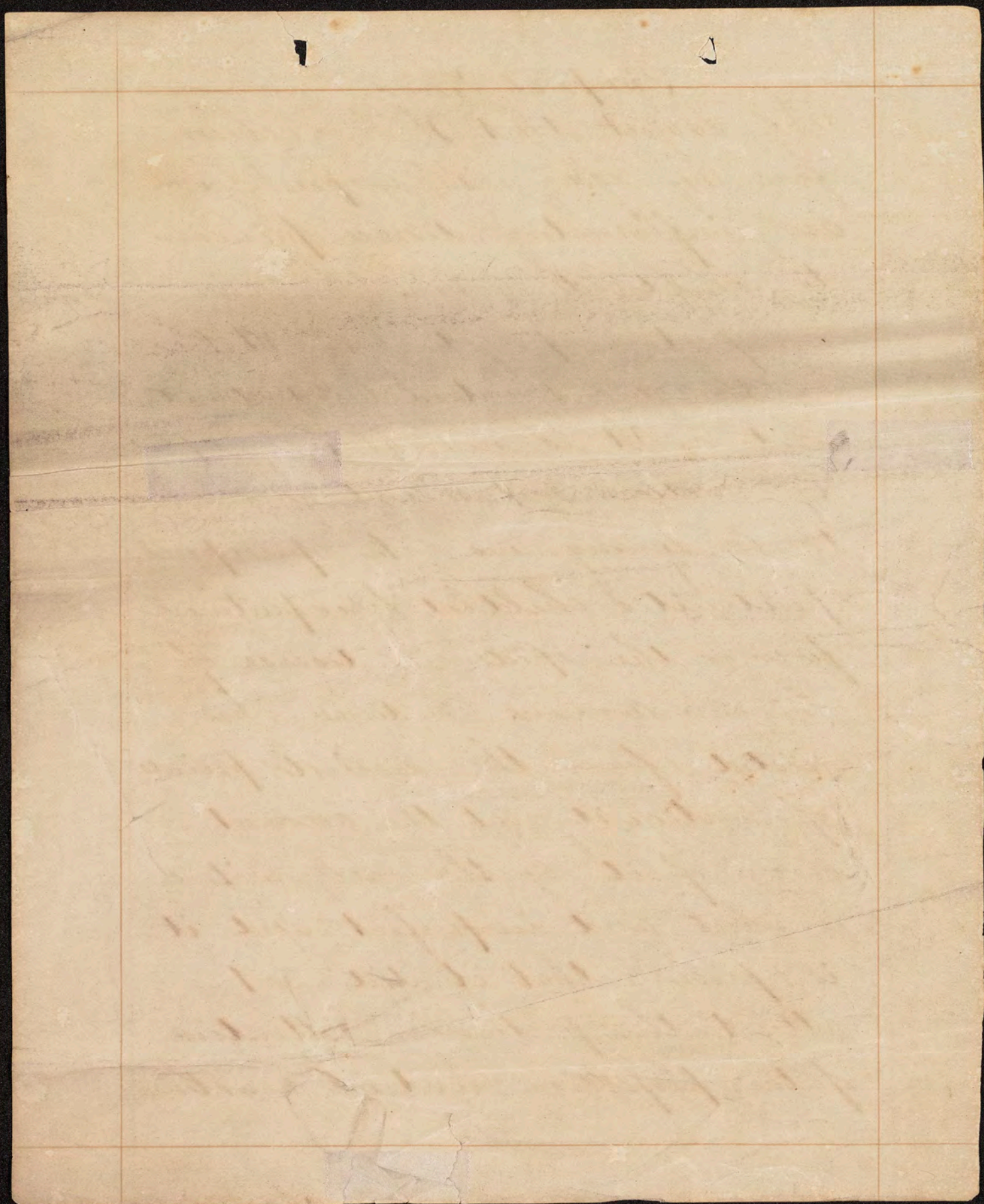
An Essay
on
Puerperal Fever
By
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For the degree of M.D. (Doctor
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Puerperal Fever

The subject that I have chosen for my essay is Puerperal fever an inflammatory disease peculiar to child-bed women. The name was first employed by Dr. Strother in the year seventeen hundred and sixteen. It is now generally adopted by medical writers and is considered to be synonymous with puerperal peritonitis, child-bed fever, peritoneal fever or the epidemic disease of lying-in women. The disease has existed from the earliest periods of antiquity but the account given of it by the early writers is short and imperfect and it is probable that it did not attract the particular attention of the profession until near the



the middle of the seventeenth century
when it made its appearance at
Paris as a malignant epidemic
which proved fatal to nearly all
who were attacked by it. The mortality
of the disease at this time could
scarcely fail to attract the attention
of physicians and lead to a
thorough investigation of it but
the true nature of the disease
does not appear to have been
well understood until it was
discovered by Dr Gordon of Aberdeen
who published a treatise on the disease
in the year seventeen hundred and
ninety five in which he points
out with much perspicuity and
force of reason the nature seat
and cure of it giving the most

convincing arguments of the justness
of his opinions in the extraordinary
success of his practice. The disease
prevailed as an epidemic in
Montgomery Co. near Norristown from
August eighteen hundred and forty
eight until March eighteen hundred
and forty nine and every woman
who was attended ^{in labour} by preceptor during
that time was attacked by ~~the~~ it
The disease as it occurred in the
vicinity of Norristown most commonly
commenced on the second or third
day after delivery for except in three
cases it always attacked the patient
before there was a full secretion
of milk. The attack usually commenced
with a rigor or shivering fit by nausea
or vomiting and great anxiety

After the cold stage had passed the skin became hot and dry the thirst urgent. the pulse seldom less than one hundred and twenty in the minute and rather full tense and vibrating in some cases very small and sharp or somewhat wiry. Severe pain in the abdomen which was very tender to the touch and if pressed upon caused great uneasiness. In some cases the pain was deep and obtuse and more confined to one part but however limited in extent at first it gradually spread over the whole abdomen which became very tender to the touch tumid tense and tympanitic. The head was often affected with pain but more commonly with giddiness and

a sense of confusion. The tongue was in most cases white & somewhat furred and sometimes dry but most commonly moist and in some cases it was found to be perfectly clean especially where vomiting occurred at the beginning of the disease. The lochia commonly continued to flow as usual in some cases it was diminished and in others wholly suppressed. As the disease advanced especially if there was much pain the abdomen generally became much distended and respiration was performed with the greatest difficulty. The patient generally laid upon the back with the legs drawn up to obviate the pressure of the bed clothes and abdominal muscles

Such were the symptoms of the disease as it occurred in the practice of my preceptor and if not arrested by the proper treatment it soon terminated fatally. Various causes have been assigned by writers for the production of puerperal fever. Some contend that the cause of the disease is a specific contagion and by others when it prevails epidemically its cause has been referred to a noxious constitution of the atmosphere. Gordon and Armstrong contend that the disease is infectious and the former thinks that every person who is with a patient labouring under this disease becomes charged with an atmosphere of infection which can be communicated to every pregnant

1

woman who comes within its sphere and declares that he himself has been the means of carrying the infection to a great number of women. Kulme maintained that it was not more contagious than pleuritis nephritis or any other inflammatory disease. Professor Meigs states that he has gone from the dissection of the bodies of women dying at the hospital with symptoms of the most violent puerperal fever and from visiting the patients of other physicians who were labouring under this disease and has never communicated it to any of the women he attended in labour a short time afterwards. There can be no doubt that the disease is often caused by severe

protracted and instrumental labours
the forcible introduction of the hand
into the uterus exposure to cold
and moisture and irregularities in
diet soon after delivery. Whatever
conclusion we may arrive at as to
the contagious or noncontagious
character of the disease it cannot
affect the view that has been taken
of its proximate cause or essential
nature for the symptomatic morbid
appearances and influence of remedies
all prove whatever the nature of
the remote cause may be that
it acts by exciting inflammation of
the uterine organs. The dissection
of persons who have died of puerperal
fever reveals extensive inflammation
of the peritoneum and its productions

the first of the month of the year
and the second of the month of the year
the third of the month of the year
the fourth of the month of the year
the fifth of the month of the year
the sixth of the month of the year
the seventh of the month of the year
the eighth of the month of the year
the ninth of the month of the year
the tenth of the month of the year
the eleventh of the month of the year
the twelfth of the month of the year
the thirteenth of the month of the year
the fourteenth of the month of the year
the fifteenth of the month of the year
the sixteenth of the month of the year
the seventeenth of the month of the year
the eighteenth of the month of the year
the nineteenth of the month of the year
the twentieth of the month of the year
the twenty-first of the month of the year
the twenty-second of the month of the year
the twenty-third of the month of the year
the twenty-fourth of the month of the year
the twenty-fifth of the month of the year
the twenty-sixth of the month of the year
the twenty-seventh of the month of the year
the twenty-eighth of the month of the year
the twenty-ninth of the month of the year
the thirtieth of the month of the year
the thirty-first of the month of the year

and of the ovaries. In some cases
the womb is found to be gangrenous
or softened by inflammation and in
others the veins of the uterus are
greatly inflamed and filled with
inflammatory deposits of lymph or
gorged full of pus. Deposits of pus
are sometimes found in the thorax
or other remote parts of the body
and to so great an extent as to give
rise to the idea of a pyogenic or
pus creating fever. The absorbents
of the uterus are affected in a
manner similar to that of its veins.
The omentum has been found lacerated
and sometimes nearly half of its
substance wasted by suppuration.
Sometimes large quantities of a
seropurulent fluid are found in

the cavity of the abdomen. Of all diseases to which child bed women are liable puerperal fever is the most dangerous. It is asserted by one author that the death of much the greater portion women who die in child bed is caused by this disease. Of the first twenty four hours of the after the marked appearance of the disease be lost it has generally speaking passed far beyond the reach of art and can be arrested by no treatment - however appropriate but if taken in its earliest stages and treated actively there are few acute diseases that afford the physician more chance for the successful employment of his remedies. Armstrong thinks that much of the fatality of

the disease is owing to the caution
timidity and indecision in treating it
Notwithstanding we should always give
a guarded prognosis as cases have
terminated fatally in defiance of the
most appropriate treatment. The favourable
symptoms are diminished frequency of the
pulse a gentle moisture on the skin
a flow of milk to the breasts a plentiful
discharge of the lochia and the patient
becomes able to turn in bed. Some of the
most favourable symptoms according to
Gordon are the appearance of an erysipelas
on the extremities or of abscesses on different
parts of the body and the occurrence of a
diarrhoea early in the disease especially
if the tumefaction of the abdomen was
thence ~~diminished~~ the pain relieved
and the pulse rendered slower

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A very quick weak pulse great tension of the abdomen difficult respiration a dry rough tongue delirium back vomiting black stools and a circumscribed crimson spot on the cheek are all very unfavorable symptoms. Cold clammy sweats on the face and breast involuntary stools, fluttering pulse and cessation of pain are the immediate harbingers of death. Venesection ranks first of all the agents to be employed in the treatment of puerperal fever. All other remedies such as purgatives opiates leeches fomentations &c. are used as mere adjuncts to the employment of the lancet. The disease consists essentially of an inflammation and to subdue this bloodletting is

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the only agent that can be depended upon. The lancet should be employed early and freely for if energetic means be not resorted to within twelve hours after the attack and at times within six all the efforts of the physician may prove futile. Gordon if called within twelve hours after the attack always insisted on bleeding and places his standard at twenty four ounces as the quantity to be drawn and states that he never failed to cure the disease at once ~~when~~ he was called early and took that quantity of ~~blood~~ at one bleeding. Wm. Armstrong Lee and Prof. Meigs all concur with him in recommending the early and free use of the lancet. Prof. Meigs makes no objection to his standard which is

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concur in by Wiley with certain exceptions
and think that it is sufficiently large
to effect the desirable degree of reduction
in most cases. but is not willing to
adopt it as a general rule since the
same effect is produced in some by
twenty four ounces in others by thirty
and in others again by twelve or
fifteen. We should always bleed until
the desirable effect is produced and
let the pulse the heaving the respiration
pain and the general sensations of
the patient declare that enough
has been done and not too much
nor too little. If the pain in the
abdomen is not removed or greatly
relieved by the operation in six hours
it ought to be repeated. As an adjunct
to venesection leeches may be freely

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employed by scattering them over the ~~ab-~~
~~domen~~ parts of the abdomen most affected
with pain and soreness. Cataplasms and
warm fomentations may be used with
great advantage after the removal of
the leeches and the bowels should
be well opened by some suitable pur-
-gative or by enemata. Gordon always admin-
-istered immediately after bleeding
two scruples of jalap and three grains
of Calomel mixed with conserve of roses
which always operated well and speedily
The dysentery thus excited was continued
by other purgative mixtures given in such
proportions as to cause five or six evac-
-uations daily for the first three days
after which the dose was diminished
but the medicine was always con-
-tinued until the end of the disease

Every night he give an opiate to allow the patient some rest and to give her strength to enable her to bear the evacuations of the ensuing day.

Key coincides with Gordon in the use of purgatives but objects to ~~the~~ use of opiates and thinks that they rather tend to prolong the disease.

Armstrong recommends Calomel as a purgative in doses of a scruple or half dram and thinks that opiates are prejudicial at the commencement of the disease although very useful in allaying the irritation of the system and inducing sleep after the inflammatory symptoms have been subdued. Prof Meigs is averse to active purgation as a remedy in this disease and recommends the bowels to be well opened by enemata.

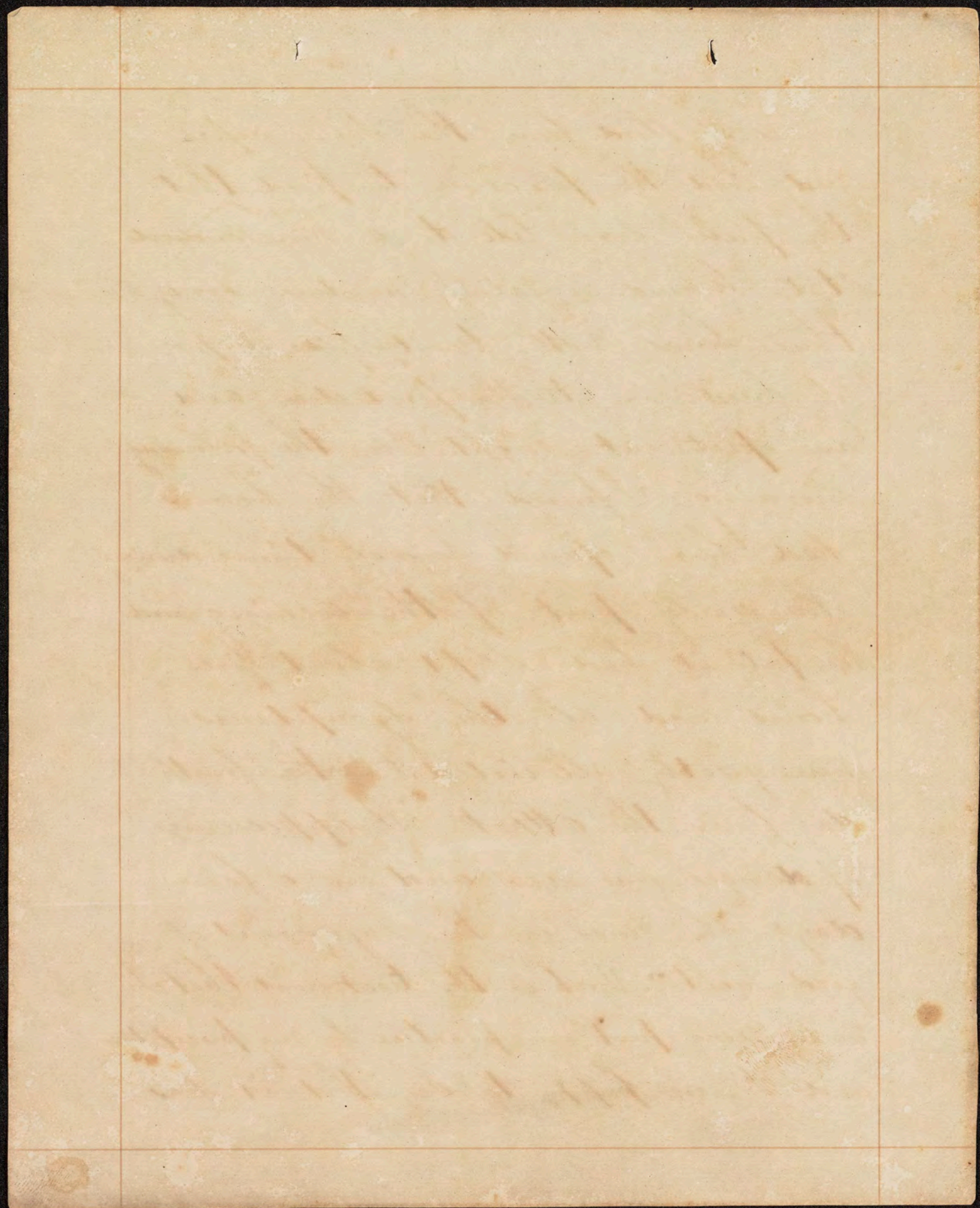
or by Calomel followed by Castor oil and after the operation Calomel and opium or Calomel and Ser Pow with warm mucilaginous drinks. These serve after the evacuation of the bowels to promote perspiration which when properly excited control in a very useful manner the internal disorders of the circulation. The following description of a case of puerperal fever taken from the note-book of my preceptor will serve to show the treatment that was most successful as the disease occurred in his practice

"Mrs W— a young woman in health was delivered of her second child on the eight day of December eighteen hundred and forty eight after a short and easy labour. The third day after delivery was attacked with a chill

which was succeeded by increased heat
pain in the head severe pain in the
abdomen which was extremely sore to
the touch thirst urgent tongue
coated respiration very frequent breaths
flaccid lochia nearly ceased pulse
from one hundred and twenty to an
hundred and thirty. Took from twenty
five to thirty ounces of blood from the
arm prescribed fifteen grains calomel
and directed it to be followed ^{in three hours} by an
infusion manna and magnesia with
warm fomentations to the abdomen
I saw her early on the next morning
the purgatives had operated freely and
the head ache ~~was~~ greatly relieved the pain
in the abdomen but little diminished
pulse hundred to hundred and ten. I
again took about fifteen or twenty

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ounces of blood from the same orifice
and had the pleasure to find that
the pulse soon fell to a more moderate
state. Ordered a saline mixture every
three hours with twenty five drops
of laudanum to the first dose and
an opiate at night. On the following
morning I found that the bowels
had been opened several times during
the early part of the evening ~~and~~.
The patient had slept about five
hours and all the symptoms
were greatly alleviated. On the fourth
day from the attack all appearance
of danger was over and in a few
days she was in the enjoyment of
good health". Such is the treatment that I
have seen put in practice by my preceptor
and I am happy to say that it has



never disappointed his hopes of success
except in two cases and one of these
I have every reason to believe that
the disease had passed far beyond
the curable stage before the delivery
of the child.

